CLAIMS:

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- 1. A Streptococcus pneumoniae protein or polypeptide having a sequence selected from those shown in table 2.
- 2. A Streptococcus pneumoniae protein or polypeptide having a sequence selected from those shown in table 4.
- 3. A protein or polypeptide as claimed in claim 1 or claim 2 provided in substantially pure form.
 - 4. A protein or polypeptide which is substantially identical to one defined in any one of claims 1 to 3.
- 15 5. A homologue or derivative of a protein or polypeptide as defined in any one of claims 1 to 4.
 - 6. An antigenic and/or immunogenic fragment of a protein or polypeptide as defined
- in Tables 2-4.

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- 7. A nucleic acid molecule comprising or consisting of a sequence which is:
 - (i) any of the DNA sequences set out in Table 1 or their RNA equivalents;
 - (ii) a sequence which is complementary to any of the sequences of (i);
 - (iii) a sequence which codes for the same protein or polypeptide, as those sequences of (i) or (ii);

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- (iv) a sequence which is substantially identical with any of those of (i), (ii) and (iii); (v) a sequence which codes for a homologue, derivative or fragment of a protein as defined in Table 1. A nucleic acid molecule comprising or consisting of a sequence which is: (i) any of the DNA sequences set out in Table 4 or their RNA equivalents; a sequence which is complementary to any of the sequences of (i); (ii) a sequence which codes for the same protein or polypeptide, as those (iii) sequences of (i) or (ii); a sequence which is substantially identical with any of those of (i), (ii) (iv) and (iii); (v) a sequence which codes for a homologue, derivative or fragment of a
- 9. The use of a protein or polypeptide having a sequence selected from those shown in Tables 2-4, or homologues, derivatives and/or fragments thereof, as an immunogen and/or antigen.

protein as defined in Table 4.

10. An immunogenic and/or antigenic composition comprising one or more proteins or polypeptides selected from those whose sequences are shown in Tables 2-

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- 4, or homologues or derivatives thereof, and/or fragments of any of these.
- 11. An immunogenic and/or antigenic composition as claimed in claim 10 which is a vaccine or is for use in a diagnostic assay.
- 12. A vaccine as claimed in claim 11 which comprises one or more additional components selected from excipients, diluents, adjuvants or the like.
- 13. A vaccine composition comprising one or more nucleic acid sequences as defined in Tables 1, 3 or 4.
 - 14. A method for the detection/diagnosis of S.pneumoniae which comprises the step of bringing into contact a sample to be tested with at least one protein or polypeptide as defined in Tables 2-4, or homologue, derivative or fragment thereof.
 - 15. An antibody capable of binding to a protein or polypeptide as defined in Tables 2-4, or for a homologue, derivative or fragment thereof.
 - 16. An antibody as defined in claim 15 which is a monoclonal antibody.
 - 17. A method for the detection/diagnosis of *S.pneumoniae* which comprises the step of bringing into contact a sample to be tested and at least one antibody as define din claim 15 or claim 16.
- 25 18. A method for the detection/diagnosis of S.pneumoniae which comprises the step of bringing into contact a sample to be tested with at least one nucleic acid sequence as defined in claim 7 or claim 8.

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20. The use of an agent capable of antagonising, inhibiting or otherwise interfering with the function or expression of a protein or polypeptide as defined in Tables 2-4 in the manufacture of a medicament for use in the treatment or prophylaxis of S. pneumoniae infection

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